

Scanvaegt SP520 Compact Sizer concept

Accurate and fast sizing



UNBEATEN ACCURACY
MODULAR
CONFIGURATIONS
HYGIENIC DESIGN

Scanvaegt SP520 Compact Sizer is a fast, accurate and robust sizing solution that dynamically weighs and sizes products with speeds up to 160 items per minute. The SP520 Compact Sizer concept is available in three standard configurations that accommodate different production needs from sizing to simple batching jobs.

The most accurate weighing in a compact solution

Featuring a robust and reliable design that can withstand use in harsh production environments, Scanvaegt's SP520 Compact Sizer is the ideal solution for weight-sizing jobs at speeds of up to 160 items per min. It ensures maximum utilization of raw materials and handling of packing of bulk products in wet production environments. Coupled with a robust design and a state-of-the-art HMI, the SP520 Compact Sizer represents a powerful solution for providing accurate product weight sizing. Its compact design and flexible configuration possibilities makes it easy to integrate Scanvaegt SP520 Compact Sizer in existing production lines.

Modular design

This solution has been designed to accommodate various customer requirements. It comes in three different standard configuration levels:

- SP520 Compact Sizer
- SP520 Compact Sizer+
- SP520 Compact Sizer++

As the process weigher and separator are two individual units, you are assured the same high accuracy and capacity as provided in Scanvaegt's top range of Design Graders.

SP520 Compact Sizer

This basic sizing solution efficiently handles grading of products weighing from 80 g to 6 kg in up to six weight groups. The sizing functionality, which takes place quickly and gently using catch-arm, is focused on sizing jobs of raw materials and can be configured to fit sizing into e.g. vemag trolleys or e-size boxes for raw material processing.

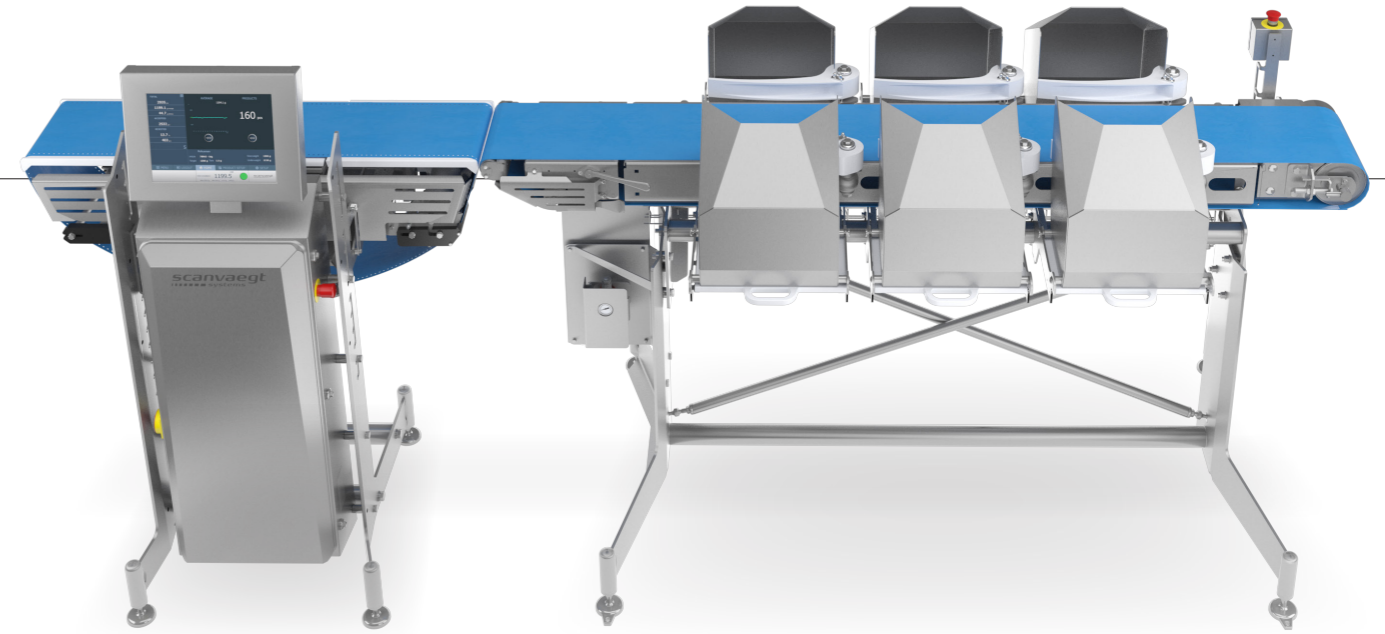
The SP520 Compact Sizer solution consists as basis of:

- SP520 Process Weigher, W275 mm
- SP5220 Separator with 3 x 2 catch arms CC475 mm
- 6 reject sliders



OPEN, EASY-TO-CLEAN DESIGN

SP520 Compact Sizer features an open design with sloping lines and surfaces and round pipe profiles. This makes it easy to clean.



SP520 Compact Sizer+

This solution gives possibilities for a manual buffer functionality with collection of bulk products in a bin while the operator changes the vemag trolley, e-sizebox or other collection units while still running production. This functionality is perfect when sizing products in smaller units and provides optimized uptime.

The SP520 Compact Sizer solution consists as basis of:

- SP520 Process Weigher, W275 mm
- SP5220 Separator with 3 x 2 catch arms CC475 mm
- 6 reject bins with manual gates

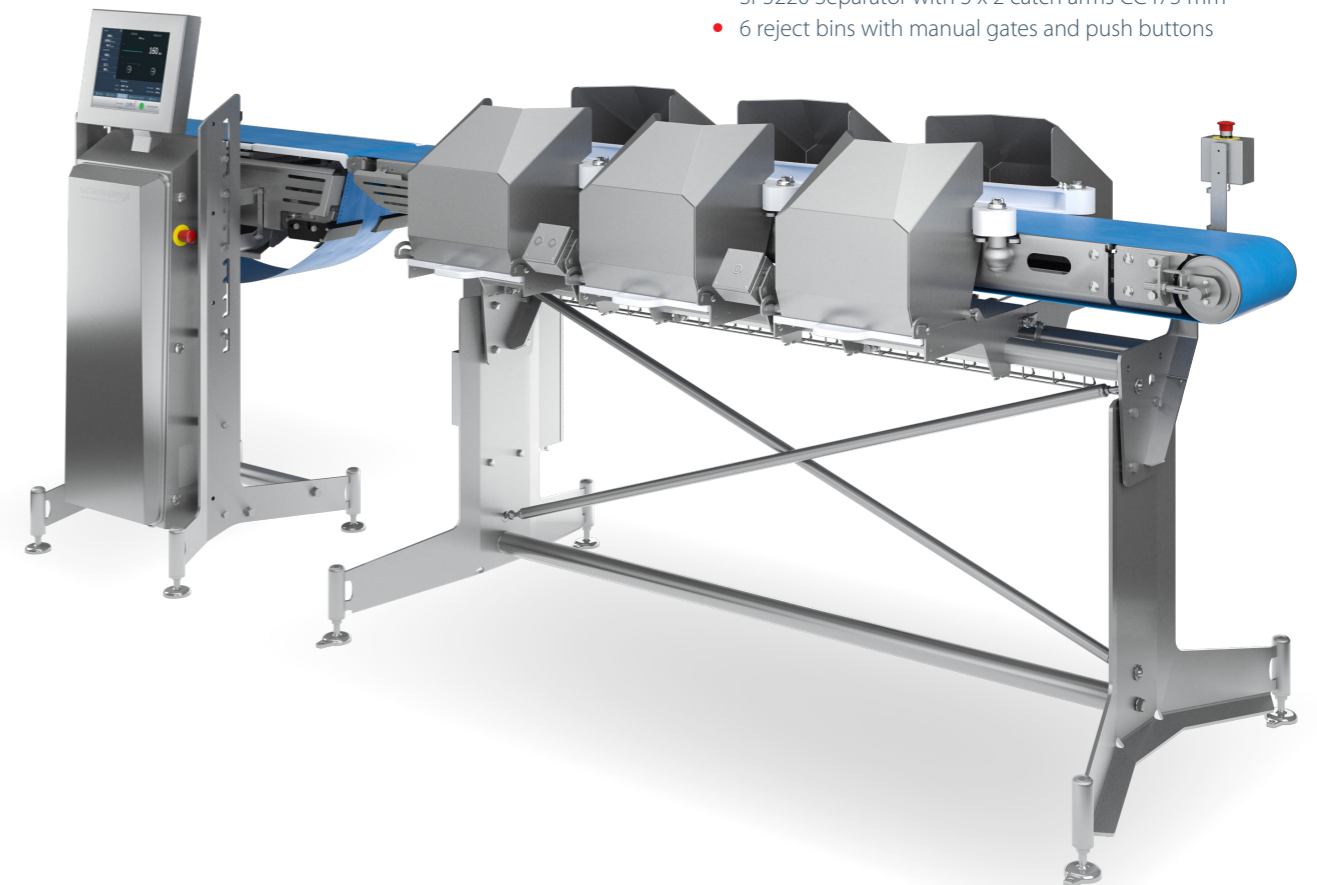
SP520 Compact Sizer++

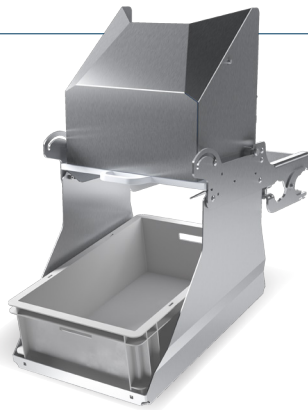
The most advanced solution SP520 Compact Sizer++ includes a minimum batching function, where the products are sorted into a predefined total portion weight, for example 5 kg.

The system continuously accumulates the products' individual weight. The weight is used for calculating into which portion and collection bin the individual product must be sorted. When a batch has been reached, the pushbutton light next to the gate indicates a complete batch. This ensures that the portion always reaches the minimum weight. Once the gate has been emptied manually and the push button activated, the system will automatically start collection for the next batch. The function can also be programmed as a piece count portion. Any further configurations require a Scanvaegt Design Grader solution.

The solution consists as basis of:

- SP520 Process Weigher, W275 mm
- SP5220 Separator with 3 x 2 catch arms CC475 mm
- 6 reject bins with manual gates and push buttons





Flexible configuration

There is a variety of additional optional configurations available for the three standard models:

- Infeed accelerator belts in 500, 1.000 or 1.500 mm length
- Box-holders*
- Reject bins with manual gates and push buttons*
- Number of catch arms (2-6)
- Water spray and scraper (for sticky products)
- PlusFlex Production Management SW

* Reject bin 0 only available for + and ++ solutions

Optimal durability

The design of the process weigher, featuring a slack belt system, provides fast and accurate weighing even in harsh production conditions. A hermetically sealed load cell in stainless steel based on parallelogram construction (patent pending), combined with overload protection and an antishock system, ensures maximum uptime. There are three years guarantee on all weighing cells.

The conveyor belt is driven by a strong and hard-wearing drum motor that can withstand use in the food industry.

Open, easy-to-clean design

SP520 Compact Sizer features an open design with sloping lines and surfaces and round pipe profiles. This makes it easy to clean the machine thoroughly and prevents the accumulation of dirt and bacteria.

User-friendly Human-Machine Interface

SP520 Compact Sizer features a large 15" touch-screen with intuitive menus guiding the operator through asking sequences using simple commands and ensuring quick, easy and error-free operation. The simple navigation structure, clear graphics and easy product setup reduce the time required at product shifts. The SP520 Compact Sizer's software system provides complete overview and precise production monitoring using statistics and graphs, fast product setup and the possibility of optimizing production.

Efficient management and optimization

PlusFlex Production Management (optional) is a software application for reporting, monitoring in real time of one or more machines as well as database management and product setups.

Technical specifications

General	
Material	Stainless steel AISI 304, PET-P, PE-HD, POM
Environment	Wet environment
Height	1.100 or 1.500 mm
Height adjustment	+/- 25 mm in machine feet
Belt width	275 (250 mm between pin holes on each belt)
Belt speed	30-110 m/min Normal 50 Hz 75 m/min
Capacity	Up to 160 items/min
Belt material	Approved material for direct food contact
Temperature range	-5 to + 30 °C

Process Weigher SP520

Display	15" TFT-Color LCD: 1024 x 768 touch-screen
Weighing platform dim.	Select: W 275 mm x L 300, 350, 400, 500, 600, 700 or 800
Weighing capacity	1.500 g/0.5 g, 3.000 g/1 g or 6.000 g/2.0 g
Variable frequency inverter	Yes
Motor type	Drum motor
Transport direction	left-right and right-left
Power supply	220 VAC, 50/60 Hz single phase FN
Power consumption	2.2 kW/maximum 16 amps
PC connection	Yes
Software	Sizing, batching to minimum weight and piece count
IP-rating weighing system	IP68

Reject Unit SP5220

Machine length	2.248 mm (standard and +) and 2.448 mm (++)
Max. no. of reject arms	6
Space between bins	475 or 575 or 950 mm
Ambient temperature range	0°C - +35°C
Power connection	220-240 VAC, 50/60Hz single fase
Motor power Consumption	0.55kW
Air Consumption max.	6 bar. 25 L/min.

Infeed SP5110 (Optional)

Belt length	500mm, 1.000mm, 1.500mm (500 mm only in combination with 1.000mm or 1.500mm)
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